

KATHMANDU UNIVERSITY  
End Semester Examination  
June/July 2024

Level : B.Pharm  
Year : I  
Time : 2 hrs. 30 mins.

Course : COMP 117  
Semester : II  
F. M. : 40

21 JUL 2024

SECTION "B"

[6Q × 4 = 24 marks]

Attempt *ANY SIX* questions.

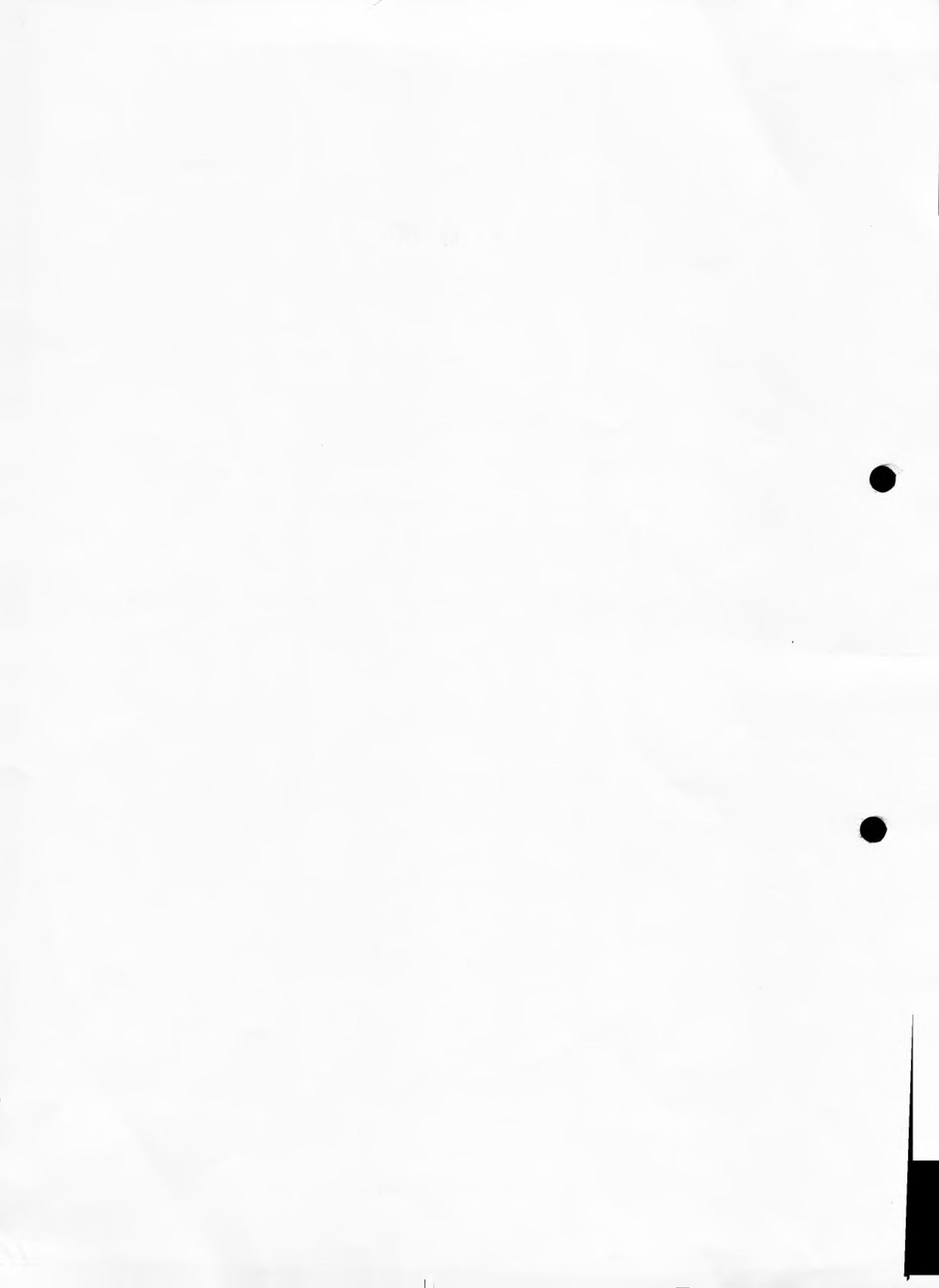
1. What is flowchart? Write an algorithm and draw a flowchart to find the largest number among three numbers. [1+3]
2. What is variable? Write any four rules for writing identifier. [1+3]
3. Explain any five string functions used in python with example.
4. Explain the basic operator that are used in Python with suitable code example.
5. Difference between **if** and **if... else** statement in Python with flow chart. Write a program in Python to check whether the number enter by the user is Armstrong or not. [2+2]
6. Define recursive function. Write a program in Python to input number and calculate the sum of individual digits using recursive function. [1+3]
7. Explain NumPy, SciPy and Matplotlib python libraries.

SECTION "C"

[2Q × 8 = 16 marks]

Attempt *ANY TWO* questions.

8. What is function? Write its type and how to declare the user defined function in Python? Write a program in python that display the even numbers from 1 to 'n' and n is input by the user and function must pass number. [1+2+2+3]
9. Differentiate between count controlled and condition controlled loop with suitable example. Write a Python program to display the following pattern. [4+4]  
5  
5 4  
5 4 3  
5 4 3 2  
5 4 3 2 1
10. Write the similarities and dissimilarities between list, tuple, dictionary and set with suitable examples for each.



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Marks Scored:

Level : B.Pharm

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Exam Roll No. :

Time: 30 mins.

Course : COMP 117

Semester : II

F. M. : 10

Registration No.:

Date : 21 JUL 2024

SECTION "A"

[20Q. × 0.5 = 10 marks]

Choose the most appropriate answer and mark [X] in the box.

- Python programming is a \_\_\_\_\_  
 General Purpose Programming Language  
 Special Purpose Programming Language  
 Low Level Programming Language  
 Assembly Language
- Which of the following is the **CORRECT** extension of the Python file?  
 .pth                     .pl                     .python                     .py
- Which symbol is used to represent a decision in a flowchart?  
 Rectangle                     Diamond                     Parallelogram                     Oval
- Which of the following is valid in Python language?  
 1a=7                     1\_a=6                     \_a12=8                     \*a1=12
- Which of the following is not a keyword in Python language?  
 from                     do                     assert                     None
- Which of the following is the **CORRECT** output of the program  

```
a="hello"  
b='Pharmacy'  
c=b+a  
print(c)
```

  
 helloPharmacy     hello Pharmacy     Pharmacy hello     Pharmacyhello
- What is the output of the given code?  

```
a="language"  
print(a[-7:-3])
```

  
 uage                     ngua                     angua                     angu
- The string build-in method islower() \_\_\_\_\_  
 returns true if all the characters are in lower case  
 converts the string to lower case  
 returns true if all the characters are in upper case  
 converts the string to upper case

9. Which is the **CORRECT** output for the following code?  

```
result=23%6
print(result)
```

 3                       4                       5                       2
10. What is the output of the following code?  

```
hi=('a','b',1,2.5)
print(hi)
```

 ('a','b',1,2.5)     ('a','b',1,2.5)     (a,b,1,2.5)     [a,b,1,2.5]
11. What will be the output of the following Python code snippet?  

```
a={"Ram":21, 'Hari':12}
print(a)
```

 {"Ram": 21, 'Hari': 12}                       {'Ram': 12, 'Hari': 21}  
 {21, 12}     {'Ram': 21, 'Hari': 12}
12. What is the primary purpose of the if statement in Python?  
 To perform mathematical operation  
 To repeat a block of code  
 To execute a block of code based on a condition  
 To repeat a function
13. What do you mean by python tuples?  
 A mutable type of data type which can only store number  
 An immutable type of data which can store anything  
 A mutable type of data which can only store string  
 An immutable type of data which can store only stored string
14. What will be the output of the following Python code snippet?  

```
num=set([1,2,3,1,2,3])
print(len(num))
```

 3                       6                       ([1,2,3])                       ([1,2,3,1,2,3])
15. \_\_\_\_\_ are used to store the values in keys and pairs.  
 List                       Set                       Dictionary                       Tuple
16. What will be the output of the following code?  

```
x=50
if x>10 and x < 15:
    print('true')
elif x > 15 and x < 25:
    print('not true')
elif x > 25 or x < 35:
    print('false')
else
    print('not false')
```

 false                       true                       not true                       not false

17. What is the output of the following code

```
counter = 1
sum = 0
while counter <= 5:
    sum = sum + counter
    counter = counter + 2
print(sum)
```

15                       12                       5                       9

18. Which keyword is used for function?

fun                       def                       define                       function

19. \_\_\_\_\_ library is required for creating chart or data visualization in python.

Pandas                       Numpy                       Matplotlib                       SciPy

20. How can you import a specific function from a module in Python?

- Using the 'import' keyword followed by the module name and function name separated by a dot
- Using the 'imports' keyword followed by the module name and function name separated by a dot
- Using 'use' keyword followed by the module name and function name separated by a dot
- Using the 'require' keyword followed by the function name

